 Year 11 Maths Methods Revision Linear Algebra

Try each question **with** and **without** a calculator.

1. If then equals:
2. Given the equation
   1. Solve for
   2. Solve for
3. Find the intersection of
4. Find the equation of the line passing through the points (3,2) and (4,-3)
5. The cost of hiring a Blacktop taxi consists of a flag fall of $5 plus 40 cent for every kilometre (k) travelled. Find a rule for the cost (C) of hiring the taxi. What would be the cost to travel 15km?
6. The line passes through a point . The value of is
7. Find the equation of the line parallel to the line with the equation and passing through the point
8. Find the exact distance between the coordinates A (-1,3) and B (3,-2)
9. Find the coordinates of the midpoint of the line joining the points with the coordinates (*3a,5a*) and (*11a,-3a*)

1. Crashes’ is having a big sale on CDs and DVDs. For $90 Sara bought 5 CDs and 3 DVDs. Benjamin managed to buy 10 CDs and 2 DVDs for $120. Find the cost of each DVD and CD. (All CDs are the same price and all DVDs are the same price.)

Define

Define

Solve for

1. Find the equation of the line that is perpendicular to the line and passes through the point